

## SEQUENCE LISTING

<110> Pfizer Limited (EP (GB) only), Pfizer, Inc. (EP except GB / US / JP)

<120> Phosphodiesterase Enzymes

<130> File reference: PCS10350APME

<140>

<141>

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 516

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Asn Pro Val Pro Val Gln Arg Ser His Leu Gln Gly Pro Ile

1

5

10

15

Leu Arg Leu Arg Tyr Met Val Lys Gln Leu Glu Asn Gly Glu Ile Asn

20

25

30

Ile Glu Glu Leu Lys Lys Asn Leu Glu Tyr Thr Ala Ser Leu Leu Glu

35

40

45

005150-1-01000000

60

80

95

110

125

140

160

175

190

205

Ala Asp Val Thr Gln Thr Val His Cys Phe Leu Leu Arg Thr Gly Met

210

215

220

Val His Cys Leu Ser Glu Ile Glu Leu Leu Ala Ile Ile Phe Ala Ala

225

230

235

240

Ala Ile His Asp Tyr Glu His Thr Gly Thr Thr Asn Ser Phe His Ile

245

250

255

Gln Thr Lys Ser Glu Cys Ala Ile Val Tyr Asn Asp Arg Ser Val Leu

260

265

270

Glu Asn His His Ile Ser Ser Val Phe Arg Leu Met Gln Asp Asp Glu

275

280

285

Met Asn Ile Phe Ile Asn Leu Thr Lys Asp Glu Phe Val Glu Leu Arg

290

295

300

Ala Leu Val Ile Glu Met Val Leu Ala Thr Asp Met Ser Cys His Phe

305

310

315

320

Gln Gln Val Lys Thr Met Lys Thr Ala Leu Gln Gln Leu Glu Arg Ile

325

330

335

Asp Lys Pro Lys Ala Leu Ser Leu Leu Leu His Ala Ala Asp Ile Ser

340

345

350

His Pro Thr Lys Gln Trp Leu Val His Ser Arg Trp Thr Lys Ala Leu

355

360

365

005160-Tab 9960

Met Glu Glu Phe Phe Arg Gln Gly Asp Lys Glu Ala Glu Leu Gly Leu

370

375

380

Pro Phe Ser Pro Leu Cys Asp Arg Thr Ser Thr Leu Val Ala Gln Ser

385

390

395

400

Gln Ile Gly Phe Ile Asp Phe Ile Val Glu Pro Thr Phe Ser Val Leu

405

410

415

Thr Asp Val Ala Glu Lys Ser Val Gln Pro Leu Ala Asp Glu Asp Ser

420

425

430

Lys Ser Lys Asn Gln Pro Ser Phe Gln Trp Arg Gln Pro Ser Leu Asp

435

440

445

Val Glu Val Gly Asp Pro Asn Pro Asp Val Val Ser Phe Arg Ser Thr

450

455

460

Trp Val Lys Arg Ile Gln Glu Asn Lys Gln Lys Trp Lys Glu Arg Ala

465

470

475

480

Ala Ser Gly Ile Thr Asn Gln Met Ser Ile Asp Glu Leu Ser Pro Cys

485

490

495

Glu Glu Glu Ala Pro Pro Ser Pro Ala Glu Asp Glu His Asn Gln Asn

500

505

510

Gly Asn Leu Asp

515

009460-TabE9900

<210> 2

<211> 3091

<212> DNA

<213> Homo sapiens

<400> 2

gtcgacccac gcgtccggga ggaggaaggc aggggccaaa gaggaagttg tcccctcttg 60  
 ggggccctgg ggctcctggg gtcaggattt tgatactctg aagcaggaaa ctttgattcc 120  
 catggcaaac cctgttcctg ttcagaggag ccacctccag ggccccattc tcaggctgcg 180  
 ctacatggtg aagcagttgg agaatgggga gataaacatt gaggagctga agaaaaatct 240  
 ggagtacaca gcttctctgc tgaagccgt ctacatagat gagacacggc aaatcttgga 300  
 cacggaggac gagctgcagg agctgcggtc agatgccgtg ccttcggagg tgcgggactg 360  
 gctggcctcc accttcaccc agcaggcccg ggccaaaggc cgcgagcag aggagaagcc 420  
 caagttccga agcattgtgc acgctgtgca ggctgggac ttcgtggaac ggatgttccg 480  
 gagaacatac acctctgtgg gcccactta ctctactgcg gttctcaact gtctcaagaa 540  
 cctggatctc tgggtgcttg atgtcttttc cttgaaccag gcagcagatg accatgccct 600  
 gaggaccatt gtttttgagt tgctgactcg gcataacctc atcagccgct tcaagattcc 660  
 cactgtgttt ttgatgagtt tcctggatgc cttggagaca ggctatggga agtacaagaa 720  
 tccttaccac aaccagatcc acgcagccga tgttaccag acagtcatt gcttcttgct 780  
 ccgcacaggg atggtgcact gcctgtcgga gattgagctc ctggccatca tctttgctgc 840  
 agctatccat gattatgagc acacgggcac taccaacagc ttccacatcc agaccaagtc 900  
 agaatgtgcc atcgtgtaca atgatcggtc agtgctggag aatcaccaca tcagctctgt 960  
 tttccgattg atgcaggatg atgagatgaa cattttcatc aacctacca aggatgagtt 1020  
 tgtagaactc cgagccctgg tcattgagat ggtgttgcc acagacatgt cctgccattt 1080  
 ccagcaagtg aagaccatga agacagcctt gcaacagctg gagaggattg acaagcccaa 1140  
 ggccctgtct ctactgctcc atgctgctga catcagccac ccaaccaagc agtggttggt 1200  
 ccacagccgt tggaccaagg cctcatgga ggaattcttc cgtcagggtg acaaggaggc 1260  
 agagttgggc ctgccctttt ctccactctg tgaccgcaact tccactctag tggcacagtc 1320  
 tcagataggg ttcatcgact tcattgtgga gccacattc tctgtgctga ctgacgtggc 1380

009460-1419300

agagaagagt gttcagcccc tggcggatga ggactccaag tctaaaaacc agcccagctt 1440  
 tcagtggcgc cagccctctc tggatgtgga agtgggagac cccaaccctg atgtggtcag 1500  
 ctttcgttcc acctgggtca agcgcattca ggagaataag cagaaatgga aggaacgggc 1560  
 agcaagtggc atcaccaacc agatgtccat tgacgagctg tccccctgtg aagaagaggc 1620  
 ccccccatcc cctgccgaag atgaacacaa ccagaatggg aatctggatt agccctgggg 1680  
 ctggcccagg tcttcattga gtccaaagtg tttgatgtca tcagcaccat ccatcaggac 1740  
 tggctcccc atctgctcca agggagcgtg gtcgtggaag aaacaaccca cctgaaggcc 1800  
 aaatgccaga gatttggggg tggggaaagg gccctcccc acctgacacc cactgggggtg 1860  
 cactttaatg ttccggcagc aagactgggg aacttcaggc tcccagtggc cactgtgcc 1920  
 atccctcagc ctctggattc tcttcattgc caggtggctg ccaggagcgc gggagcttcc 1980  
 tggaggcttc ccagggcctt ggggaagggt cagagatgcc agccccctgg gacctcccc 2040  
 atcctttttg cctccaagtt tctaagcaat acattttggg gggtccctca gccccacc 2100  
 ccagatctta gctggcaggt ctgggtgcc ctttctctcc cctgggaagg gctggaatag 2160  
 gatagaaagc tgggggtttt cagagcceta tgtgtgggga ggggagtgga ttccttcagg 2220  
 gcatggtacc tttctaggat ctgggaatgg ggtggagagg acatcctctt caccacagaa 2280  
 ttgcgctgct tcagccccat ctccagcctg atcctctgaa tcttctctcc ctccctttct 2340  
 gatacagtga ctggggcaaa aggagccatt gtgaccaggg gctgcgggag gcctttctctg 2400  
 ggaccttct tgggactggc ctggggccct ggggcttgct gcctgccctg agtccggagc 2460  
 ctttgcctc cttcctctcc cctggggctg ggaggcteca tccgaccaat gtctgtaaag 2520  
 tgctttgagg atctccccag caaagcacct tcagaatgta tcgacaccag ctggggttagg 2580  
 gtcaagggtg cctggggagg gtgagtaatc ctgcattgct aaaagagagg gtctgtcccc 2640  
 tcctctccac gtcccagaac tggcccagct gcaggcacta agaagctcct cccctgagac 2700  
 aagtgagggg tagtcggtga aaggcagatg gacaaggggc tcagggtgct tgccttctctg 2760  
 tcctctggag agaaccagc caggcgcggt gcccttctc ctctcaggc tcctccttgc 2820  
 cccaccttg cccagggaaa ggccaaagtc caggtgactg ccctccttct ttcttgtaaa 2880  
 taccaaccat gcatttgtac agtgggcctt gttcatgcga aatccacatc catggtctcc 2940  
 tagacctgct accctggtac ttccacccta cccaccccg agaagggcag agacgcatgt 3000  
 gactacccc tgcccttggg ttcccagacc cctgctatag ccagagaaca ataaagaagg 3060  
 gagaccagga aaaaaaaaaa aaaaaaaaaa a 3091